

PLANTS WITH CONTROLLED SIDE-SHOOT
FORMATION AND/OR ABSCISSION ZONE FORMATION

Abstract of the Disclosure

The invention relates to nucleotide sequences encoding polypeptides that control side-shoot formation, petal formation, abscission zone formation, or any combination thereof, as well as to the polypeptides and amino acid sequences encoded by these nucleotide sequences. Plants having controlled side-shoot formation, petal formation, controlled formation of abscission zones, or any combination thereof, wherein the expressible DNA sequence or fragment or derivative thereof that controls side-shoot formation, petal formation, abscission zone formation, or any combination thereof, is integrated in a stable manner into the genome of the plant cell or the plant tissue, are also disclosed. Further disclosed are methods for the production of plants having controlled side-shoot formation, petal formation, controlled formation of abscission zones, or any combination thereof, wherein the expressible DNA sequence or fragment or derivative thereof responsible for side-shoot formation, petal formation, and/or abscission zone formation is integrated in a stable manner into the genome of plant cells or plant tissues and the resulting plant cells or plant tissues are regenerated to form plants. Moreover, the invention relates to plants and seed stocks of plants, which can be obtained according to the methods of the invention.

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